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An ATM switching system allowing simplified cell flow control is disclosed. A high-speed flow of incoming ATM cells is distributed in cell units to predetermined input ports of an ATM switch in an order in which the incoming ATM cells arrived. After cell switching of the ATM switch, outgoing ATM cells received in parallel from predetermined output ports of the ATM switch are multiplexed to produce a high-speed flow of outgoing ATM cells.

[illegible]